AMENDMENTS TO THE CLAIMS

Please substitute the following claims for the pending claims with the same numbers, respectively:

Claim 1 (Currently Amended): A system for dynamically generating and processing a program by connecting a server computer and at least one of a client computer and a data processing server computer via a network means, sending and receiving data therebetween, and executing a desired voluntary data processing process by dynamically generating and then processing at least one unit-program for data processing, said system comprising:

a functional module storage means for storing a plurality of functional module classes is provided in the client computer, wherein each of said functional module classes has a coded processing logic ~~for processing~~ comprising at least a portion of the unit-program;

a configuration information storage means for storing a
plurality of configuration information including at least request
information to read out at least one of the functional module
classes and a processing condition, said configuration
information storage means being provided in the server computer;

a definition information input means for inputting at least
one definition information to declare the contents of a data
processing process to be executed, said definition information
input means being provided in the client computer;

a configuration information read-out means for reading out
at least one of the configuration information corresponding to
said at least one of the definition information from said
configuration information storage means, said configuration
information read-out means being provided in the server computer;

a unit-program generating means for reading out at least one
of the functional module classes corresponding to said at least
one of the configuration information from said functional module
storage means, said unit-program generating means being provided
in the client computer, wherein said unit-program generating

means dynamically generates a unit-program by using the coded

processing logic from said functional module classes; and

a unit-program processing means for dynamically executing

said unit-program by using said processing condition included in

said configuration information, said unit-program processing

means being provided in the client computer.

Claim 2 (Currently Amended): A system as defined in claim

1, further comprising a configuration information request means

for requesting at least one of the configuration information for

executing the data processing, said configuration information

request means being provided in the client computer,

said configuration information storage means for storing the

configuration information corresponding to the data processing to

be executed, wherein said configuration information have been

used for generating the data of the unit-program,

said configuration information read-out means reads out the

configuration information from said configuration information

storage means based on the request from said configuration

information request means.

Claim 3 (Currently Amended): A system for dynamically generating and processing a program by connecting a server computer and a client computer via a network means, sending and receiving data therebetween, and executing the desired voluntary data processing process by dynamically generating and processing at least one unit-program for data processing, said system comprising:

a functional module storage means for storing a plurality of functional module classes, said functional module storage means being provided in the client computer, wherein each of said functional module classes comprises a coded processing logic for processing at least a portion of the unit-program;

a configuration information storage means for storing a plurality of configuration information corresponding to each of a plurality of data processing processes, said configuration information storage means being provided in the server computer, wherein said configuration information includes at least request information to read out at least one of the functional module classes and a processing condition;

a configuration information request means for requesting at least one of the configuration information for executing the data processing process, said configuration information request means being provided in the client computer;

a configuration information read-out means for reading out at least one of the configuration information from said configuration information storage means corresponding to said request from the configuration information request means, said configuration information read-out means being provided in the server computer;

a unit-program generating means for reading out at least one of the functional module classes corresponding to said at least one of the configuration information from said functional module storage means, said unit-program generating means being provided in the client computer, wherein said unit-program generating means dynamically generates a unit-program by using the coded processing logic from said functional module classes; and

a unit-program processing means for dynamically executing said unit-program based on said processing condition included in

said configuration information, said unit-program processing

means being provided on the client computer.

Claim 4 (Original): A system as defined in claim 1, wherein

said configuration information storage means stores at least one

functional module class having a coded processing logic for

handling at least one of a variable data and a parameter,

said definition information input means inputs at least one

of definition information to declare the contents of the data

processing process and at least one of the variable data and the

parameter,

said configuration information read-out means reads out at

least one of the configuration information from said

configuration information storage means corresponding to said at

least one of the definition information and the request from said

configuration information request means, and

said unit-program generating means reads out at least one of

the functional module classes including at least one functional

module class from said functional module storage means

corresponding to said at least one of the configuration information,

wherein the unit-program generating means dynamically generates the unit-program by using both the coded processing logic from said functional module classes and said at least one of the variable data and the parameter included in the configuration information.

Claim 5 (Cancelled):

Claim 6 (Cancelled):

Claim 7 (Currently Amended): A system as defined in claim 5 1, wherein said server computer further comprises said functional module storage means, said unit-program generating means, said unit-program processing means and a processing result output means which returns a processing result of the unit-program to at least one of the client computer, the server computer and the data processing server computer.

Claim 8 (Original): A system as defined in claim 1, wherein said data processing server computer comprises said functional module storage means, said unit-program generating means and said unit-program processing means.

Claim 9 (Original): A system as defined in claim 1, wherein said definition information includes information relating to a combination of the functional module classes and a processing order of the functional module classes for executing the data processing process.

Claim 10 (Original): A client computer in a system for dynamically generating and processing a program by connecting to a server computer via a network means, sending and receiving data therebetween, and executing a desired voluntary data processing process by dynamically generating and processing at least one unit-program for a data processing process, said client computer comprising:

a functional module storage means for storing a plurality of functional module classes, wherein each of said functional module classes comprises a coded processing logic for processing at least a portion of the unit-program;

a definition information input means for inputting at least one definition information to declare the contents of a data processing process to be executed;

a unit-program generating means for reading out at least one of said functional module classes corresponding to at least one of the configuration information from said functional module storage means when said at least one of the configuration information including at least request information to read out at least one of said functional module classes and a processing condition are sent from the server computer, and then generating a unit-program by using the coded processing logic from said functional module classes; and

a unit-program processing means for dynamically executing said unit-program based on said processing condition included in said configuration information.

Claim 11 (Original): A client computer as defined in claim 10, wherein said server computer stores the configuration information used to generate the unit program corresponding to the data processing to be executed, said client computer further comprises a configuration information request means for requesting at least one of the configuration information corresponding to the data processing to be executed.

Claim 12 (Original): A client computer in a system for dynamically generating and processing a program by connecting to a server computer via a network means, sending and receiving data therebetween, and executing a desired voluntary data processing process by dynamically generating and processing at least one unit-program for data processing, said client computer comprising:

a functional module storage means for storing a plurality of functional module classes, wherein each of said functional module classes comprises a coded processing logic for processing at least a portion of the unit-program;

a configuration information request means for requesting

configuration information to be sent to the client computer

corresponding to the data processing to be executed;

a unit-program generating means for reading out at least one

of said functional module classes corresponding to at least one

of the configuration information from said functional module

storage means when said configuration information including at

least read-out information of said functional module class and a

processing condition are sent from said server computer based on

said request, and then generating the unit-program by using the

coded processing logic from said functional module classes; and

a unit-program processing means for dynamically executing

said unit-program based on said processing condition included in

said configuration information.

Claim 13 (Original): A client computer as defined in claim

10, wherein said functional module storage means stores at least

one functional module class having the coded processing logic for

handling at least one of a variable data and a parameter,

said definition information input means inputs at least one

of definition information to declare the contents of a data

processing process to be executed and at least one of the

variable data and the parameter, and

said unit-program generating means reads out at least one of

said functional module classes including at least one functional

module class for handling at least one of the variable data and

the parameter corresponding to said at least one of the

configuration information from said functional module storage

means when said configuration information including at least

information relating to the at least one functional module class

based on said definition information or said request for sending

the configuration information are sent from the server computer,

and dynamically generating the unit-program by using both of the

coded processing logic from said at least one functional module

class and said at least one of the variable data and the

parameter included in the configuration information.

Claim 14 (Original): A server computer in a system for

dynamically generating and processing a program by connecting to

at least one of a client computer and a data processing server

computer via a network means, sending and receiving data

therebetween, and making at least one of the client computer and

the data processing server computer execute a desired voluntary

data processing process by dynamically generating and processing

at least one unit-program for data processing, said server

computer comprising:

a configuration information storage means for storing a

plurality of configuration information including at least request

information to read out at least one functional module class and

a processing condition, wherein each of the functional module

classes comprises a coded processing logic for processing at

least a portion of the unit-program; and

a configuration information read-out means for reading out

at least one of the configuration information corresponding to at

least one definition information from said configuration

information storage means when said definition information

declares the contents of a data processing process to be executed

is sent from the client computer, sending and providing said

read-out configuration information to at least one of the client

computer and the data processing server computer,

whereby at least one of the client computer and the data

processing server computer dynamically generates and processes at

least one unit-program based on the processing condition included

in the configuration information.

Claim 15 (Original): A server computer as defined in claim

14, wherein said configuration information storage means stores

at least one of the configuration information which is used for

generating said unit-program, corresponding to the data

processing, and

said configuration information read-out means reads out at

least one of the configuration information corresponding to said

request for the configuration information sent from said client

computer.

Claim 16 (Original): A server computer in a system for

dynamically generating and processing a program by connecting to

at least one of a client computer and a data processing server

computer via a network means, sending and receiving data

therebetween, and making at least one of the client computer and

the data processing server computer execute a desired voluntary

data processing process by dynamically generating and processing

at least one unit-program for data processing, said server

computer comprising:

a configuration information read-out means for reading out

at least one of configuration information corresponding to a

request which corresponds to a data processing to be executed

from a configuration information storage means when said request

to read out the configuration information is sent from the client

computer, sending and providing said read-out configuration

information to at least one of the client computer and the data

processing server computer,

whereby at least one of the client computer and the data

processing server computer dynamically generates and processes

said unit-program based on a processing condition included in the

configuration information.

Claim 17 (Original): A server computer as defined in claim 14, wherein said server computer further comprises:

a configuration information storage means for storing a plurality of configuration information coding the coded processing logic for processing at least a portion of the unit-program;

a unit-program generating means for reading out at least one of said functional module classes corresponding to the definition information from said functional module storage means when said definition information for declaring the contents of the data processing process to be executed are sent from said client computer, wherein said unit-program generating means dynamically generates the unit-program by using the coded processing logic from said functional module classes;

a unit-program processing means for dynamically executing said unit-program based on the processing condition included in said configuration information; and

a processing result output means for returning a processing result of the unit-program to at least one of the client computer and the data processing server computer.

Claim 18 (Original): A method for dynamically generating and processing a program by connecting a server computer and at least one of a client computer and a data processing server computer via a network means, sending and receiving data therebetween, and executing a desired voluntary data processing process by dynamically generating and processing at least one unit-program for data processing in at least one of the client computer and the data processing server computer, said method comprising the steps of:

storing a plurality of functional module classes into a functional module storage means and storing a plurality of configuration information into a configuration information storage means, wherein each of said functional module classes comprises a coded processing logic for processing at least a portion of a unit-program processing and said configuration information includes at least request information to read out at least one of the functional module classes and a processing condition;

inputting at least one definition information to declare the
contents of a data processing to be executed via a definition
information input means;

reading out at least one of the configuration information
corresponding to said at least one of the definition information
from said configuration information storage means via a
configuration information read-out means;

reading out at least one of the functional module classes
corresponding to said at least one of the configuration
information from said functional module storage means via a unit-
program generating means, and dynamically generating the unit-
program processing by using the coded processing logic from said
functional module classes via said unit-program generating means;
and

dynamically executing said unit-program of the data
processing based on the processing condition included in said
configuration information via a unit-program processing means.

Claim 19 (Original): A method as defined in claim 18,
wherein said method further comprises the steps of:

storing the configuration information corresponding to the

data processing to be executed into said configuration

information storage means wherein said configuration information

is used for generating the data of the unit-program,

requesting at least one of the configuration information for

executing the data processing via a configuration information

request means, and

reading out the configuration information from said

configuration information storage means based on the request of

said configuration information request means via the

configuration information read-out means.

Claim 20 (Original): A method for dynamically generating

and processing a program by connecting a server computer and at

least one of a client computer and a data processing server

computer via a network means, sending and receiving data

therebetween, and executing a desired voluntary data processing

process by dynamically generating and processing at least one

unit-program for data processing in at least one of the client

computer and the data processing server computer, said method

comprising the steps of:

storing a plurality of functional module classes into a

functional module storage means and storing a plurality of

configuration information into a configuration information

storage means, wherein each of said functional module classes

comprises a coded processing logic for processing at least a

portion of a unit-program and said configuration information

includes at least request information to read out at least one of

said functional module classes and a processing condition;

sending the configuration information corresponding to

contents of a data processing to be executed via a configuration

information request means;

reading out at least one of the configuration information

corresponding to said request from said configuration information

storage means via a configuration information read-out means;

reading out at least one of said functional module classes

corresponding to said at least one of configuration information

from said functional module storage means via a unit-program

generating means, and dynamically generating the unit-program

processing by using the coded processing logic of said functional module classes via said unit-program generating means; and

dynamically executing said unit-program processing based on the processing condition included in said configuration information via a unit-program processing means.

Claim 21 (Original): A computer-readable and -recordable media for controlling at least one of a client computer and a data processing server computer comprising a system for dynamically generating and processing a program by connecting a server computer and at least one of the client computer and the data processing server computer via a network means, sending and receiving data therebetween, and executing a desired voluntary data processing process by dynamically generating and processing at least one unit-program for data processing in at least one of the client computer and the data processing server computer, said media comprising:

a controlling program for storing a plurality of functional module classes having a coded processing logic;

a controlling program for reading out at least one of said functional module classes and for dynamically generating a unit-program processing by using the coded processing logic of said functional module classes; and

a controlling program for dynamically executing said unit-program processing based on a processing condition included in said configuration information.

Claim 22 (Original): A computer-readable and -recordable media for controlling at least one of a client computer and a data processing server computer comprising a system for dynamically generating and processing a program by connecting a server computer and at least one of the client computer and the data processing server computer via a network means, sending and receiving data therebetween, and executing a desired voluntary data processing process by dynamically generating and processing at least one unit-program for data processing in at least one of the client computer and the data processing server computer, said recordable media comprising:

a controlling program for storing a plurality of

configuration information including at least one functional

module read-out information and a processing condition, wherein a

plurality of functional module classes code a logic of a data

processing process to be executed;

a controlling program for reading out the configuration

information and for sending the read-out configuration

information to at least one of the client computer and the data

processing server computer when definition information to declare

the contents of the data processing process to be executed is

sent from the client computer;

a controlling program for storing the configuration

information including a read-out information for reading out said

functional module classes that code the logic of the data

processing; and

a controlling program for reading out the configuration

information and for sending the read-out configuration

information to at least one of the client computer and the data

processing server computer when the definition information to

declare the contents of the data processing process to be

executed are sent from the client computer.

Claim 23 (Original): A computer-readable and -recordable

media as defined in claim 22, wherein said media further

comprises a controlling program for storing at least one of

configuration information corresponding to the data processing to

be executed, said configuration information is used for

generating a unit-program processing, and a controlling program

for reading out at least one of the configuration information

based on request information for reading out the configuration

information corresponding to the data processing to be executed

when said request is sent from the client computer.

Claim 24 (Original): A computer-readable and -recordable

media for controlling at least one of a client computer and a

data processing server computer comprising a system for

dynamically generating and processing a program by connecting a

server computer and at least one of the client computer and the

data processing server computer via a network means, sending and

receiving data therebetween, and executing a desired voluntary

data processing process by dynamically generating and processing

at least one unit-program for data processing in at least one of

the client computer and the data processing server computer, said

media comprising:

a controlling program for storing a plurality of functional

module classes having a coded process logic;

a controlling program for outputting a request of the

configuration information corresponding to a data processing to

be executed;

a controlling program for reading out at least one of said

functional module classes and for dynamically generating a unit-

program processing by using the coded processing logic of said

functional module classes when the configuration information

including at least functional module read-out information and a

processing condition are sent from said server computer; and

a controlling program for dynamically executing said unit-

program of data processing based on the processing condition

included in said configuration information.

Claim 25 (Original): A computer-readable and -recordable media for controlling a server computer comprising a system for dynamically generating and processing a program by connecting a server computer and at least one of the client computer and the data processing server computer via a network means, sending and receiving data therebetween, and executing a desired voluntary data processing process by dynamically generating and processing at least one unit-program for data processing in at least one of the client computer and the data processing server computer, said media comprising:

a controlling program for storing configuration information including at least functional module read-out information corresponding to a data processing and a processing condition, wherein a plurality of functional module classes code a logic of the data processing; and

a controlling program for reading out the configuration information and for sending the read-out configuration information to at least one of the client computer and the data processing server computer when a request for the configuration

information corresponding to the data processing to be executed

are sent from the client computer.

Claim 26 (Original): A program transfer system for

transferring and downloading a controlling program to at least

one of a client computer and a data processing server computer

comprising a system for dynamically generating and processing a

program by connecting a server computer and at least one of the

client computer and the data processing server computer via a

network means,, sending and receiving data therebetween, and

executing a desired voluntary data processing process, said

program transfer system comprising:

a program storage means for storing a controlling program

for storing a plurality of functional module classes having a

coded processing logic, a controlling program for reading out at

least one of said functional module classes when definition

information is provided to the server computer and the

configuration information including at least functional module

read-out information to declare the contents of a data processing

process to be executed and a processing condition are sent from

the server computer, and for dynamically generating a unit-

program processing by using the coded processing logic of said

functional module classes, and a controlling program for

dynamically executing said unit-program of data processing based

on the processing condition included in said configuration

information;

a program read-out means for reading out the controlling

program from said program storage means based on a request from

at least one of the client computer and the data processing

server computer; and

a transfer means for transferring said read-out controlling

program to at least one of the client computer and the data

processing server computer.

Claim 27 (Original): A program transfer system as defined

in claim 26, wherein said program storage means stores a

controlling program which stores at least one of the

configuration information corresponding to the data processing to

be executed, said configuration information is used for

generating the unit-program processing, and reads out at least

one of the configuration information based on a request for

reading out the configuration information corresponding to the

data processing to be executed when said request is sent from the

client computer.

Claim 28 (Original): A program transfer system for

transferring and downloading a controlling program to at least

one of a client computer and a data processing server computer

comprising a system for dynamically generating and processing a

program by connecting a server computer and at least one of the

client computer and the data processing server computer via a

network means, sending and receiving data therebetween, and

executing a desired voluntary data processing process, said

program transfer system comprising:

a program storage means for storing a controlling program

for storing a plurality of functional module classes having a

coded processing logic, a controlling program for outputting a

request for at least one of configuration information

corresponding to a data processing to be executed, a controlling

program for reading out at least one of said functional module

classes when the configuration information including at least functional module read-out information and a processing condition are sent from the server computer and for dynamically generating a unit-program processing by using the coded processing logic of said functional module classes, and a controlling program for dynamically executing said unit-program processing based on the processing condition included in said configuration information;

a program read-out means for reading out the controlling program from said program storage means based on a request from at least one of the client computer and the data processing server computer; and

a transfer means for transferring said read-out controlling program to at least one of the client computer and the data processing server computer via the network means.

Claim 29 (Original): A program transfer system as defined in claim 26, wherein said server computer comprises said program storage means, said program read-out means and said transfer means.